

Title (en)

BEAM-FORMING LENS WITH INTERNAL CAVITY THAT PREVENTS FRONT LOSSES

Title (de)

STRAHLFORMUNGSLINSE MIT INTERNER EINGANGSVERLUSTE VERHINDERNDEN KAVITÄT

Title (fr)

LENTILLE FORMANT UN FAISCEAU COMPRENANT UNE CAVITE INTERNE QUI EMPECHE LES PERTES A L'AVANT

Publication

**EP 0996861 A4 20010425 (EN)**

Application

**EP 98923536 A 19980519**

Priority

- US 9810255 W 19980519
- US 87200297 A 19970609

Abstract (en)

[origin: US5757557A] A device for directing light longitudinally forwardly, that comprises a lens body having a front face facing forwardly, rearward body extent, and a curved sidewall extending between the rearward body extent and the front face; a rear cavity in the body, the cavity having a sidewall and a front wall defining a corner; and a light source in the cavity, and characterized in that light rays transmitted by the light source toward the curved sidewall, and toward the corner are collimated forwardly.

IPC 1-7

**G02B 3/02**

IPC 8 full level

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CPC (source: EP US)

**F21L 4/027** (2013.01 - EP US); **F21V 5/04** (2013.01 - EP US); **F21V 7/0091** (2013.01 - EP US); **G02B 6/0005** (2013.01 - EP US); **G02B 19/0028** (2013.01 - EP US); **G02B 19/0047** (2013.01 - EP US); **F21Y 2115/10** (2016.07 - EP US)

Citation (search report)

- [X] US 2254962 A 19410902 - LAWRENCE HARRIS, et al
- [X] DE 2201574 A1 19730719 - SIEMENS AG
- See references of WO 9857199A1

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DE FR GB

DOCDB simple family (publication)

**US 5757557 A 19980526**; CA 2293788 A1 19981217; EP 0996861 A1 20000503; EP 0996861 A4 20010425; JP 2002505759 A 20020219; WO 9857199 A1 19981217

DOCDB simple family (application)

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